America—the vast and exciting arena

Guarded optimism is perhaps the best way to describe the RICS quantity surveyors' initial reaction to their recent mission to the USA. There is no doubt whatever that the American construction industry, and those who sponsor building, received the idea of persistent financial management—budget, cost plan, cost control—with profound interest. Building owners, particularly in the public sector, are worried by the regularity with which contractors' bids exceed cost estimates. Moreover, there is concern, again particularly in the public sector, that architects are designing buildings which more and more frequently exceed project budgets.

However, despite admission by many in the American building scene that there is a need for the kind of cost advice described by the British quantity surveyors, the way ahead is not going to be easy. The seed has been planted in very rich soil, but it will require the husbandry of men of the highest calibre and immense determination if it is to grow to maturity. The construction industry in the USA is a rich but highly competitive, and in many respects conservative, market. It is no place for those unprepared for hard work and financial risk.

THE MISSION LEADER SUMS UP

Selling an idea

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Two weeks, four cities, eight lectures, and 30 meetings. World Bank, UN, Federal Agencies, State and City departments, developers and financial institutions, AIA chapters and universities. Selling, selling, selling.

Did we succeed? Professional men turned salesmen for two weeks are perhaps not the best judges. We shall only know if we are hired. Or will we? What we were really selling to Americans was not ourselves but an idea, a profession and, therefore, surely an indigenous quantity surveying profession of their

If quantity surveying is to make its proper contribution, it means showing how to use construction resources more economically and to see that the financial management of building is efficient. We put a 6-point programme to the

- Americans: 1. Cost limits and budgets
- 2. Independent cost advice 3. Cost planning
- 4. Cost control
- 5. Procurement—tendering and contract 6. Cost feed-back.

To some extent, of course, they cover this. But the effort is diversified and one part unrelated to the other. Thus independent cost advice is poor (or so we were told), because those giving it have no control of the feed-back. Cost estimates tend to be telephonic operations to sub-contractors rather than mature judgments based on skill, experi-ence and cost data. This means that the basic data available to contractors is not presented to clients and designers in terms suitable for them. Client programmes (briefs) and design solutions are, therefore, less influenced by cost information than they need to be for economical building.

Almost everywhere we found a need for independent cost advice acknowledged. What had not been realised sufficiently was that it would be neither independent nor effective unless it was linked to basic cost data at source through the documentation used -in procurement of building.

We had many questions on the bill of quantities, or quantity survey, sometimes construction survey, as it is known there. The most important concept we had to establish was that of the measurement of work as fixed rather than quantities of materials and hours of lab our. Or in other words, the idea of client orientated measurement rather than production orientated. Will they perhaps not accept this and go straight into operation bills? What an opportunity for Skoyles in such uninhibited virgin

Americans are obsessed with what they are charged for anything. What would it cost them to hire us? What are your liabilities if you get it wrong? Who ap points you? These were the commonest questions at our meetings. Or put another way, we won't have your profession however good, if it costs too much. Two per cent for a \$2 500 000 project. 30-40% of architects fees, did not appear to raise eyebrows. But we were much more closely questioned on our liabilities and our professional indennity policies than on, e.g. our cost planning techniques. A quicker response to negligence or alleged negligence could make indemnity policies very expension for anyone operating in the US.

Probably our most sympathetic audiences were architects and those from universities. Of course, we may only have met those architects sympathetic to the concept. Who would come to a meeting to discuss quantity surveying II they did not feel favourably inclined to

'Architects know they have to rely to: much on contractors for their own good and their clients.' And they realise that designing within a cost constraint like any other constraint is not necessarily damaging to their freedom of expression anymore than designing on poor soil, to high densities, or to cope with fire regulations.

We specially stopped off at Indianapolis to talk with Purdue University. They are interested in the quantity surveying dis-

Tony Brett-Jones



Brian Orake



Chris Meyer



Alastair Fisher



Alex Trimmer



Building 26 November 1971

cipline and may start a degree in it. It will be excellent, if they do, but the effects of native quantity surveyors on the American scene will not be felt until the 1980's, such is the time scale for educationists.

Much more relevant to the immediate for the quantity surveying discipline is cerhaps greatest there and the examples of the British schools programme 1950-1970 is very widely acclaimed. The contribution quantity surveyors made to it is noted. If Federal Agencies can be persuaded of the value of development programmes as being one of the soundest foundations for efficient building programmes for schools, hospitals, and housing and other social building, then it seems inevitable that they should require the quantity surveyor's skill. With such a lead operations in the field for consultants will become both easier and

stendal.

be GSA (American equivalent of 100) one assistant commissioner tool to be help and no difficulty in setting a coll limit. Their problem was, he said, controlling to that limit. With re-winder you have set the right can be controlled to an cost control of the control you have set the right control when the right can cost control of the control you will never know have the limit too low and, there he limit is too low and, there he impossible to fulfill or not. In any economical building does not only except the control you will building does not only except the control to the

The private sector, penhape the private sector, penhape the private red us most Lending money at the need us most Lending money at the sector of the sector

nomist as well as the building economist. Finally, let us remember that if the US accepts the quantity surveying profession it will be more because the profession itself has changed so much over the last 20 years, not because Americans have changed. However, Americans are not stubborn or prejudiced. Many times in discussion they would give way on points-surely not always through politeness. I believe they may more easily try new procedures than we would. herein lies the dilemma for us. If they do try and it falters at first, they will not persevere as we might. And what a lot can go wrong. Strange customs, lack of local knowledge, the tremendous pace in which everything is done militate against success in a profession which relies on historical data, experience and practical knowledge as its raw material.

Those two weeks have given me great faith in the contribution the profession should make. In fundamentals it was well tested in argument and emerged almost

unscathed. This is not to say that the Americans will follow our procedures exactly in spite of the fact that the Japanese have transfer and the say that the Japanese have transfer and the say that the say the say that the say that the say that the say that the say the say that the say the say that the say that the say that the say the say the say the say the say tha

What about the follow up? Yes, we shall have to go back. And I would not mind at all having the same team which is saying a lot when one is under pressure for two weeks. Ideally, it should be a combined RIGS-Private Practice Public Service in many processions, but particularly quantity surveying rely much on each other in this course, but the processions, but particularly and priester impact will be made if they can be present in the country and they are the present in the country and they are the present impact will be made if they can be rely in the present impact will be made if they can be referred. If they can be present impact is goined to be possible.

Indianapolis as a typical Mid-Western CIV, if so Mid-Westerners are to be pittled since it seems to be surrounded by a 30-mile ring of hot dog stands, used car lots, filling stations and assorted tat, all of the most tawdry and gimerack construction. Even a State as beautiful as Virginia cannot escape the out of town shopping centre which is not only visually idusatrous in itself but also attracts a large and motley collection of surroundstarge and motley collection of surroundstands and motley collection of surroundting and motley collection of surroundstands to take the control of the control of the surround-time the control of the control of the control of the surround-time the control of the control of the control of the surround-time the control of the control of the control of the surround-time the control of the control of the control of the control of the surround-time the control of the co

There is no doubt that the United States has great tactical skill; the Detroit assembly line is clearly very efficient, the out of town shopping centre certainly provides the goods, the American architect, though politically weak, is beyond doubt more productive than British architects, the building industry can indeed build quickly.

But one is constantly forced back to the strategic questions-should they be building cars and urban motorways and out of town shopping centres? It would be foolish to pretend that Americans were not asking these questions themselves but one's impression is that the constitution provides so many checks and balances that effective action is very slow indeed. For example, New York gives every appearance of being on the verge of bankruptcy, the streets and pavements are potholed and broken, the city is ankle deep in litter, the subway and taxicabs are filthy. This is largely due to an inadequate local tax base, a state of affairs which has been identified and corrected far more quickly in Britain than in the USA. Similarly, the correction of social deficiencies is being tackled on a totally inadequate scale-the Chicago Housing Authority owns less than half the number of houses owned by the Scottish Special Housing Association and has a programme only half the size of the SSHA's which is itself supplementary to the principal public housing effort in Scotland for which local authorities are responsible. Meanwhile, women are not allowed to walk alone on the campus of Chicago's principal medical school after 3.30 p.m.

No reliable cost control

On the specific purpose of our mission it was clear that the USA has only a poorly developed capacity for arriving at a realistic budget for a capital project and that there is no reliable method for controlling the development of designs within such budgets. These deficiencies were readily admitted and admiration for quantity surveying techniques was frequently expressed. However, it would be well not to be carried away by the courtesy and friendliness of our hosts-there is an immense difference in attitudes, social and technical structures and political realities between our countries and quantity surveying techniques would have to undergo a sea change to become acceptable in America. For all that both quantity surveyors and the British building industry generally ought to maintain close links with the USA, not least because of the valuable lessons we can learn. It is perhaps worth asking what lessons these might be.

first, the awful warning. We must clarify our economic and social objectives in order to avoid being swept along in undesirable directions by technical or

BRIAN DRAKE FOR THE PUBLIC SECTOR

America! America!

See Drake is Chief Quantilly Surveyor.

Seith Development Department, Edinowy. Chairman of the Management contained of the RIGS Building Cost Intension Service. Experience as a savily surveyor in private practice, and povernment and the civil service including the former War Office, and indicating the former War Office, and indicating the former Ministry of Public Building and Section 100 public Section 100

Sole, diversity, quality, squalor, tactical tabil and strategic bankruptcy; these are be impressions which remain sharpest acres mind (and one is conscious of safing with all the authority of 15 days list hand experience of the United States).

The enormous scale of the United States

is probably sulficient in itself to account for its diversity, nevertheless, one was unprepared for the contrast between the allow pace and charm of Washington and Virginia. The excitement of Chicago, the virginia is the excitement of Chicago, the probability and vigour of New York. The quality of driving manners seemed a good mick of general atmosphere: in Washington of Chicago, the probability and virginia manufacture, and the probability of th

There is certainly a great deal of work of high quality in the United States; but there is also the most wretched squalor, physical squalor in the ghetto areas which are worse than even Glasgow can offer and visual squalor almost everywhere. A number of Americans described

financial forces; specifically we must control the motor car and we must control land use much more effectively than we

ste now doing.

Steody, the shining example. We ought to borrow some American self-ceilled to the steel self-ceilled self-ceilled self-ceilled self-ceilled self-ceilled self-ceilled self-ceilled self-ceilled good mortals. In doing so, we selling bonds, the Interest on which is example, for the construction of seal projects. Certainly millionalists are xempl, for the construction of seal projects. Certainly millionalists gas example, for the construction of seal projects. Set self-ceilled self-c

creases.

Ind., the shaming comparison. It would appear as though the American consultation industry has much higher probuthing than our own though whenever will the specific, if orude, comparises such as the number of bricks laid will have the such as the number of bricks laid will have the such as the number of bricks laid will have the results seemed very simi-

Iar to British practice. My personal view is that there is a prima face case for saying that part of the explanation lise is a prima face case for saying that part of the explanation lise in the problem of the proble

The skyscrapers stand proud
They seem to say they have
sought the absolute
and made it their own.
Yat they are blameless, as

dumb steel and the dumber concrete of their bastions.
"Man made us" they murmur, We are proud as only man is proud, and we have no more found the absolute than has man.—Carl Sandburg.

CHRIS MEYER FOR THE PRIVATE SECTOR

No place for the faint-hearted

intopher Meyer is Senior Partner of a not chartered quantity surveyors with sics in Westminster, London; Cantlerwe Merchaeter, Sheffled, Scumborgh Schloergh, and overseas offices on Schloergh, and overseas offices on the Cantle of the Cantle Sec. East and Australia. Mr. Reyer Motion of the Cantle of the Cantle Sec. East and Australia. Mr. Reyer Motion of the Cantle of the Cantle Sec. East and Australia. Mr. Reyer Motion of the Cantle of the Cantle Sec. East and Australia. Mr. Reyer Mr. Sec. East Australia and Mr. Reyer Mr. Reyer Mr. Sec. East Australia and Mr. Reyer Mr. Reye

Its US construction scene is confusing of confused. Confusing because of its last unfamiliarity to UK eyes and conset because of the complicated inter-is between Federal, State and Munici-

cal Government.

le grass roots of the American way of demand that Federal Government and ance should be seen and not heard. Community enterprise abounds and dedemand often starts at this level upands rather than from Federal level

selfs and schools are other financed space load both issues. In New York selfs, the citizens were voting on one of the citizens were voting on one to have a transportation bond as to improve the subway. This bondor as the improve the subway. This bondor as red satisfied that the last issue for as the improvement had been effective in the citizens of the citizens o

Annual housing needs

rederal participation in housing schemes and always seen. Land may be purlessed at one price and sold to departs at a much reduced price. Mort-Vigas may be guaranteed or the true life trade of mortgages substantially wheat from say 7% down to 1% a 40-year period. The US needs

approximately 2.5m housing starts a year. One of the dominating factors in the lives of professional and managerial people is University education. Although plumbers earn sometimes \$20 000 a year. most families try to send their children to college. When the children graduate they may only earn \$10 000 as junior architects or engineers, but the sacrifice is made. The cost of sending a youngster through a four-year bachelors course may be between \$4500 to \$6000 a year. The lower figure applies if the University chosen is in the State where the youngster lives. Usually grade (primary) and high (secondary) schools are free, but college education has a severe impact on most middle income American families.

Free enterprise

Free enterprise is the watchword and the public and private sectors of the construction industry have no sharp divisions. With the possible exceptions of housing, most projects are in the hands of private architects as distinct from architects in the public sector. Cities which have architectural departments may well have set up such projects rather than promote low cost housing. Before condemning such an attitude, it should be remembered that the architect's fees are about 6%, but have to cover the fees of both types of engineers, preparation of con-tract documents and supervision-in-chief. We may well ponder here before summarily dismissing the situation as irrelevant because of the difference in building costs. So indeed is the cost of living

American professional men have a highly developed commercial sense—they have to. Many firms employ public relations companies or even in house 'PRO's. Political motives play an important rôle as far down the scale as the local community centre or primary school. Professional men cannot stand aloof and take detached views.

Whilst architects may incorporate their

firm they cannot limit their liability. Sueing architects has become a real problem and if a workman is killed or injured, the architect may find himself being sued on the grounds that he did not exercise proper supervision of the project.

proper supervision of the project. It is not possible to write about the American scene without mentioning the American scene without mentioning the control of the property of the property strong and it is guite common for a building owner or eartheat to discuss a building owner on any project is viral. In Kansas City important projects were hold the property of t

House, outlined some background imporsions it is enhanged into to write about the ruls and botts of quantity surveying. It is quite untrue to say there is nobody exercising the functions of a quantity surveyor. There are several specialist firms with large staffs preparing budget times with large staffs preparing budget have any function in connection with contract documents and post-contract work. Their origins are assorted: engineers; specification writers; estimators; engoyade and the results uneven. This may approach and the results uneven. This may used property.

The need for persistent cost advice and financial planning and control is generally recognised, but the means of attaining this are controversial.

Contractor-managers

Cutting the control of the control o

work What are the opportunities for British chartered quantity surveyors? The first obstacle to overcome is the conception that quantity surveyors are measurers and counters of bricks. This view came up during our visit with depressing regularity. There is quite a public relations job to do here. Second, the Americans are proud of the system they have evolved in the construction industry and would need to be convinced that any advice or procedures we possess have a relevance to the American scene. Whilst there is general awareness of the need for cost planning and cost control, it would have to be proved that chartered quantity surveyors are the best people to handle these matters. Our reputation in other parts of the world is not sufficient. It may be easier to convince Government than private developers whose activities are often interwoven with those of the larger contractors

I am sure we have a great deal to offer, but it will require the perseverance and attention of first rate men to make inroads into this vast and exciting arena.